

Section III. REMOVAL OF PRECISION GUNNERY SYSTEM (PGS)

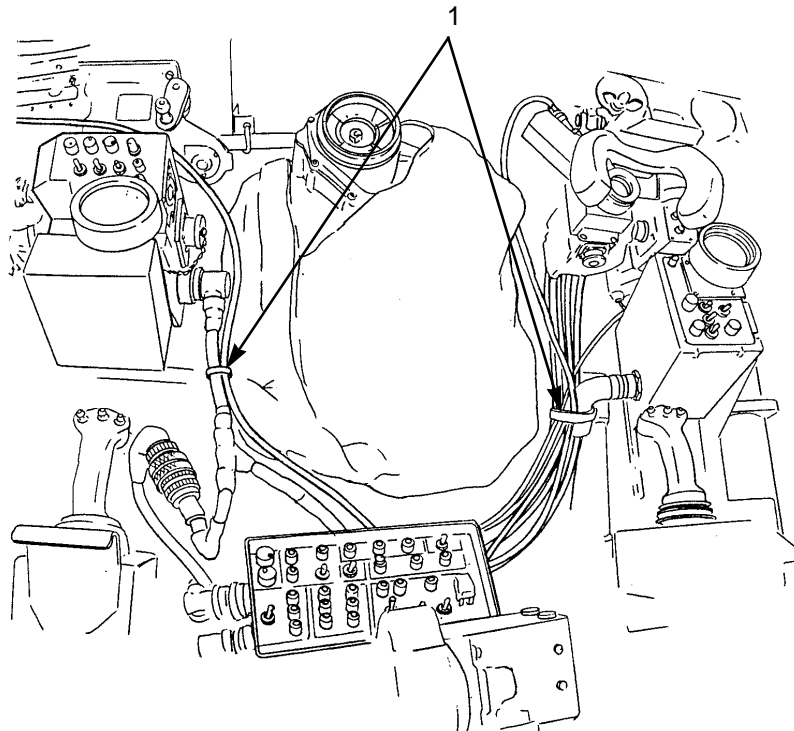
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2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES.

WARNING

- Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.
 - TURRET DRIVE LOCK must be in locked position before connecting or disconnecting system components/cables. Failure to follow this warning may result in injury or death to personnel.
- a. Unfastening of Cables.

Unfasten velcro straps (1) from all attaching points.



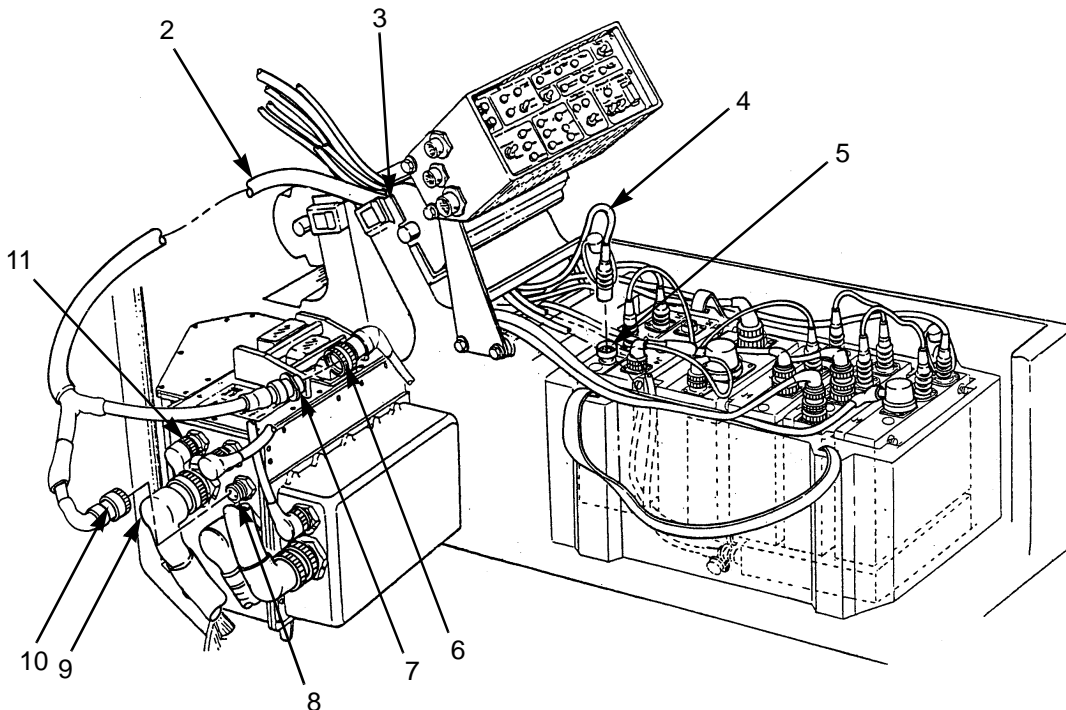
2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

b. W12 Cable Removal.

NOTE

Installation/removal of CDA, PDA, and DIM36TH vehicle and PGS cables must be performed or supervised by trained personnel.

- (1) Remove HE ammunition box lid (see TM 08594A-10/1A).
- (2) Disconnect W12 cable connector J3 (4) from vehicle interface unit connector J3 (5).
- (3) Feed W12 cable (2) through ammunition feed port (3).
- (4) For ease of removal, disconnect PDA vehicle cable connector J4 (11).
- (5) For ease of removal, disconnect PDA vehicle cable connector J1 (9).
- (6) Disconnect W12 cable connector TO-CABLE-W106P1 (7) from PDA vehicle cable connector W106P1 (6).
- (7) Disconnect W12 cable connector PDAJ3 (10) from PDA connector J3 (8).
- (8) Connect PDA vehicle cable connector W106P1 (6) to PDA connector J3 (8).
- (9) Connect PDA vehicle cable connector J1 (9).
- (10) Connect PDA vehicle cable connector J4 (11).

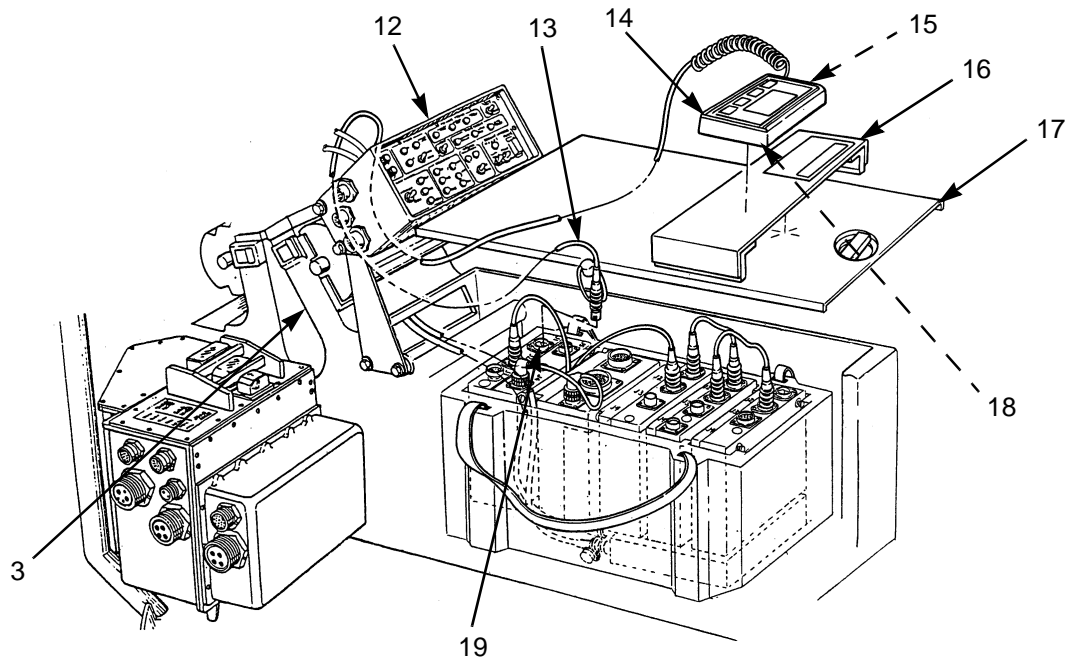


c. Control Panel, Control Panel Bracket, and TDRS Memory Card Removal.

- (1) Remove control panel bracket (16) with control panel (14) from HE ammunition box lid (17).

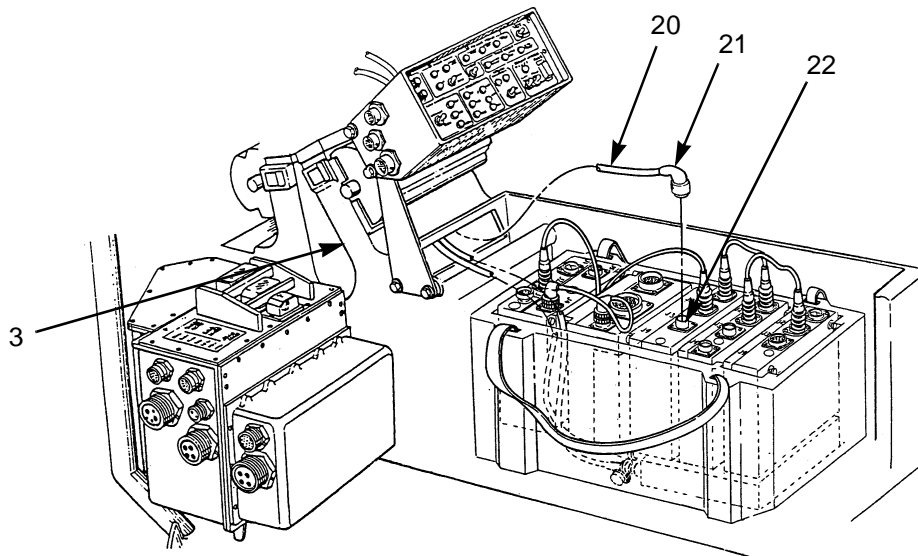
2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

- (2) Disconnect control panel cable connector J1 (13) from vehicle interface unit connector J1 (19).
- (3) Feed control panel cable through ammunition feed port (3) and down through space between CDA (12) and ammunition feed port.
- (4) Press eject button (15) on control panel (14) to eject TDRS memory card (18).



d. Remote System Interface (RSI) Antenna Cable Removal.

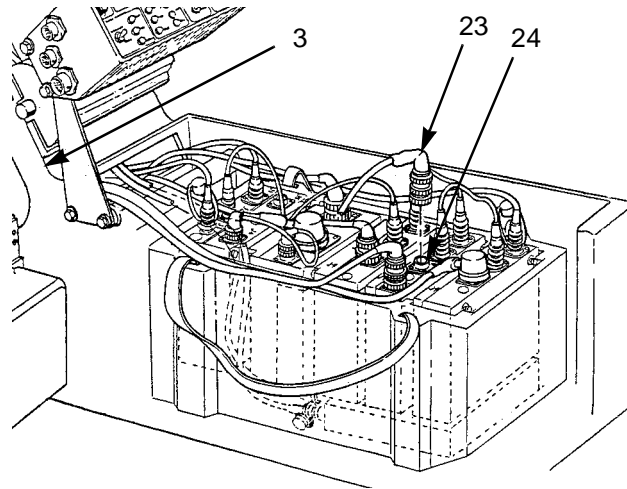
- (1) Disconnect RSI antenna cable connector J3 (21) from RSI unit connector J3 (22).
- (2) Feed RSI antenna cable (20) through ammunition feed port (3).



2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

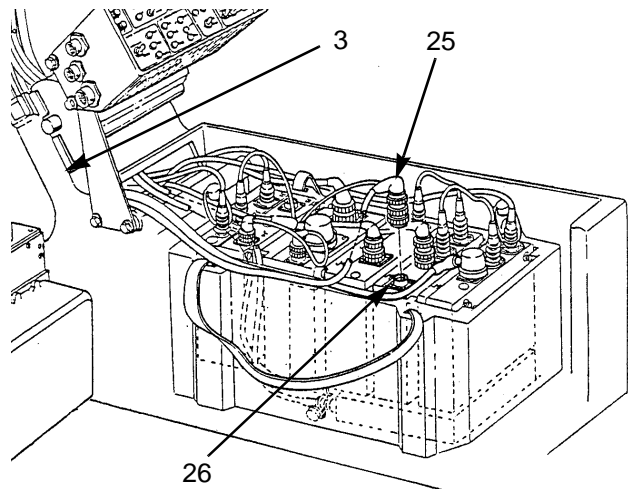
e. W7 Cable Removal.

- (1) Disconnect W7 cable connector J3 (23) from target computer unit connector J3 (24).
- (2) Feed W7 cable connector J3 (23) through ammunition feed port (3).



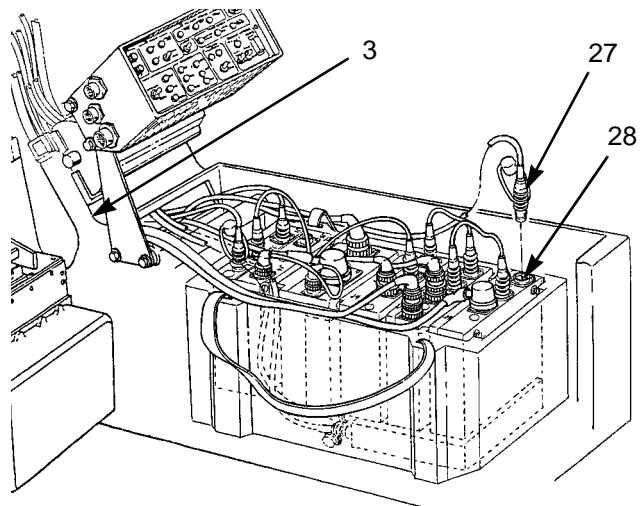
f. W8 Cable Removal.

- (1) Disconnect W8 cable connector J4 (25) from target computer unit connector J4 (26).
- (2) Feed W8 cable connector J4 (25) through ammunition feed port (3).



g. W1 Cable Removal.

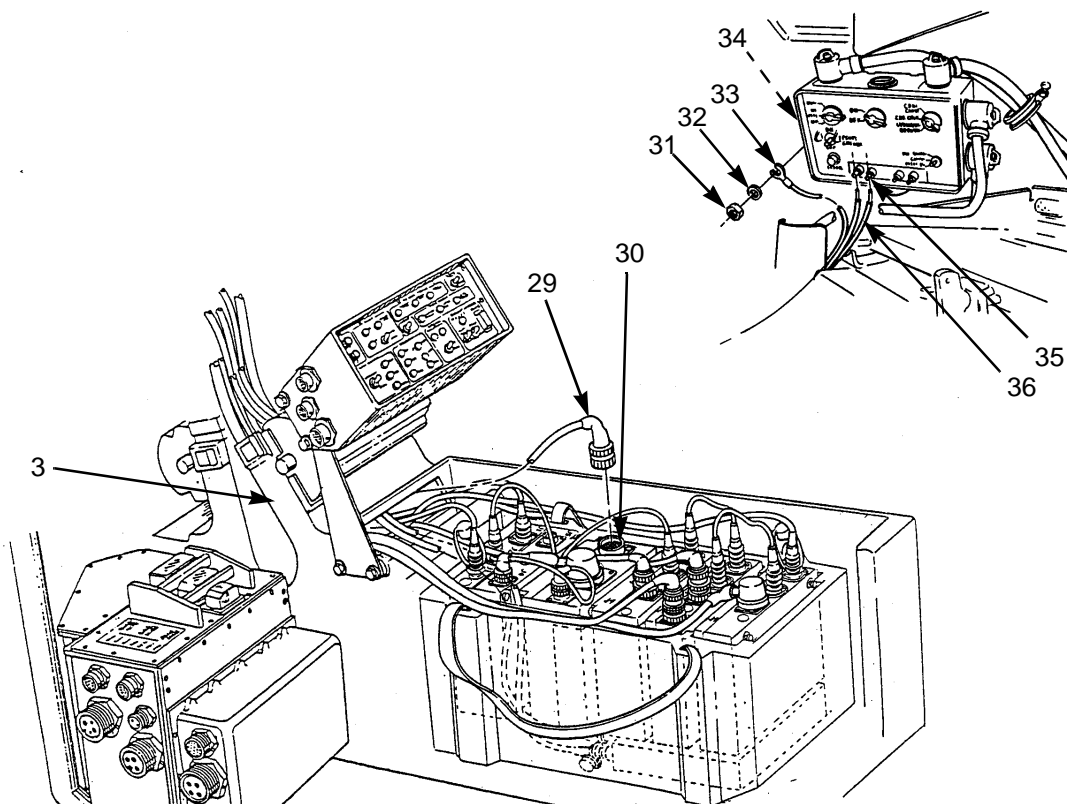
- (1) Disconnect W1 cable connector J1 (27) from TBOS video mixer connector J1 (28).
- (2) Feed W1 cable connector J1 (27) through ammunition feed port (3).



2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

h. W13 Cable Removal.

- (1) Disconnect W13 cable assembly chassis ground lead (33) at AM 7162 mounting stud (34) by removing nut (31) and washer (32).
- (2) Disconnect W13 cable assembly audio input 7162 and GRD 7162 cable leads (36) from AM 7162 amplifier terminals (35).
- (3) Disconnect W13 cable connector J3 (29) from expansion unit connector J3 (30).
- (4) Feed W13 cable connector J3 (29) through ammunition feed port (3).



2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

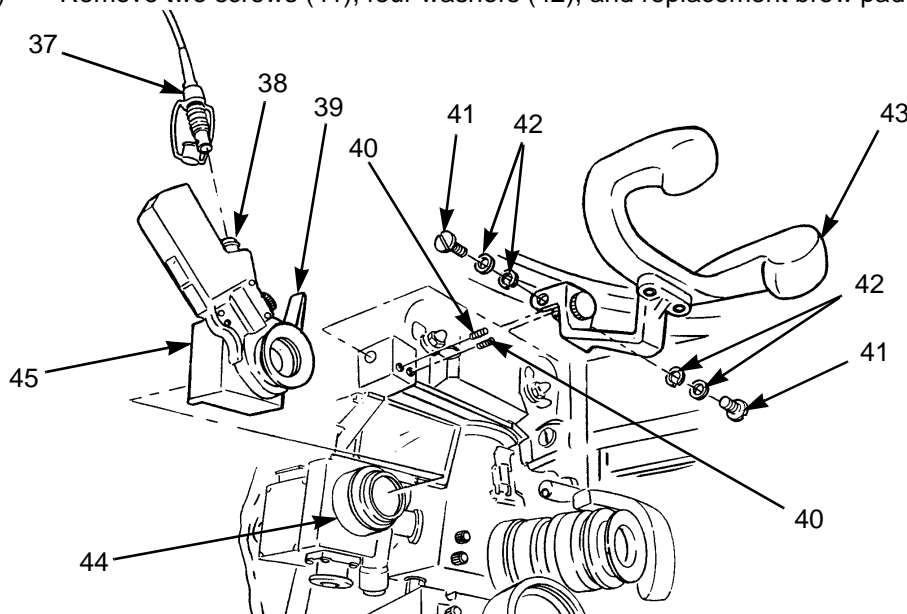
i. TBOS Commander's Eyepiece Unit, W10 Cable, and Browpad Removal.

- (1) Lift locking handle (39) and remove tracer, burst, obscuration simulator (TBOS) commander's eyepiece unit (45) from commander's daysight (44).
- (2) Disconnect W10 cable connector J1 (37) from TBOS commander's eyepiece unit connector J1 (38).

NOTE

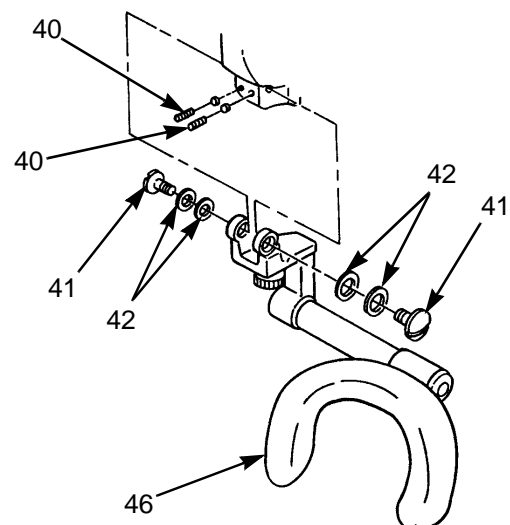
Use tool assembly in PGS storage case for steps 3 through 6.

- (3) Loosen two setscrews (40).
- (4) Remove two screws (41), four washers (42), and replacement brow pad (43).



- (5) Install commander's daysight brow pad (46) and secure with two screws (41) and four washers (42).

- (6) Tighten two setscrews (40).



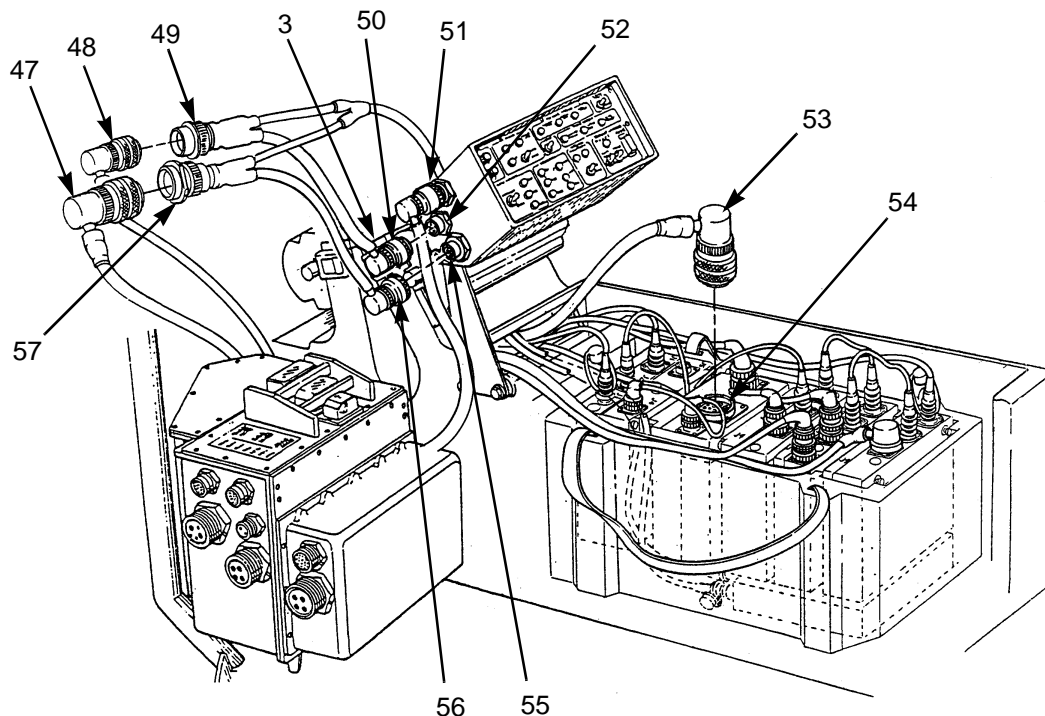
2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

j. W14 Cable Removal.

NOTE

Installation/removal of CDA, PDA, and DIM36TH vehicle and PGS cables must be performed or supervised by trained personnel.

- (1) Disconnect W14 cable connector W105P5 (49) from CDA vehicle cable connector W105P5 (48).
- (2) Disconnect W14 cable connector W105P4 (57) from CDA vehicle cable connector W105P4 (47).
- (3) If necessary, disconnect CDA vehicle cable connector W107P1 (51) from CDA connector J3 (TOP).
- (4) Disconnect W14 cable connector CDAJ2 (50) from CDA connector J2 (CENTER) (52).
- (5) Disconnect W14 cable connector CDAJ1 (56) from CDA connector J1 (BOTTOM) (55).
- (6) Disconnect W14 cable connector J2 (53) from expansion unit connector J2 (54).
- (7) Feed W14 cable through ammunition feed port (3).
- (8) Connect CDA vehicle cable connector W105P4 (47) to CDA connector J1 (BOTTOM) (55).
- (9) Connect CDA vehicle cable connector W105P5 (48) to CDA connector J2 (CENTER) (52).
- (10) If disconnected, connect CDA vehicle cable connector W107P1 (51) to CDA connector J3 (TOP).



2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

k. W11 Cable Removal.

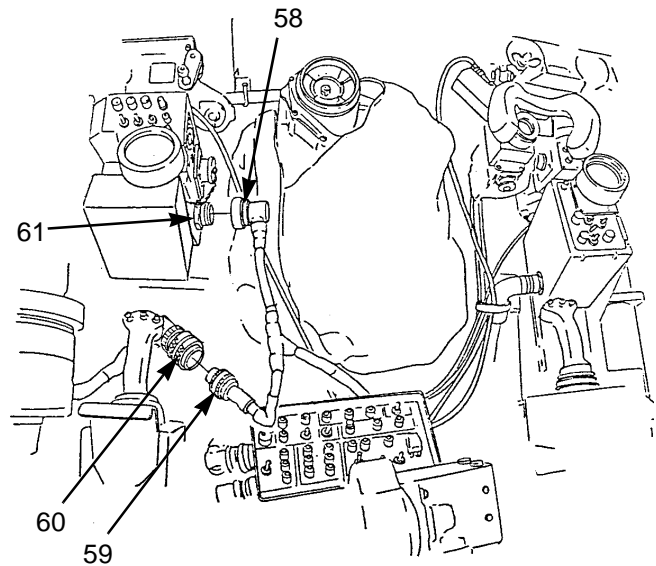
NOTE

Installation/removal of CDA, PDA, and DIM36TH vehicle and PGS cables must be performed or supervised by trained personnel.

(1) Disconnect W11 cable connector labeled TO-CABLE-HIRE (59) from DIM36TH system cable connector (60).

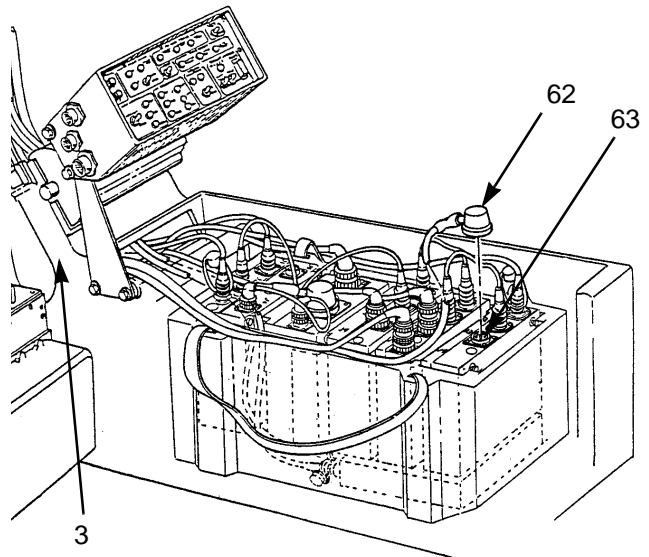
(2) Disconnect W11 cable connector labeled HIRE (58) from DIM36TH unit connector (61).

(3) Connect DIM36TH system cable connector (60) to DIM36TH unit connector (61).



(4) Disconnect W11 cable connector J3 (62) from TBOS video mixer connector J3 (63).

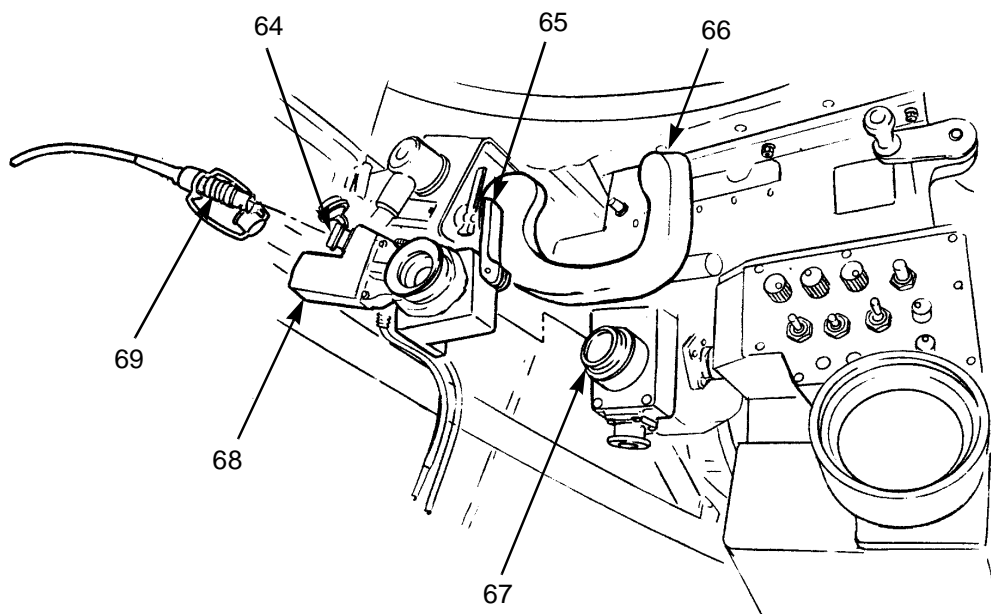
(5) Feed W11 cable through ammunition feed port (3).



2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

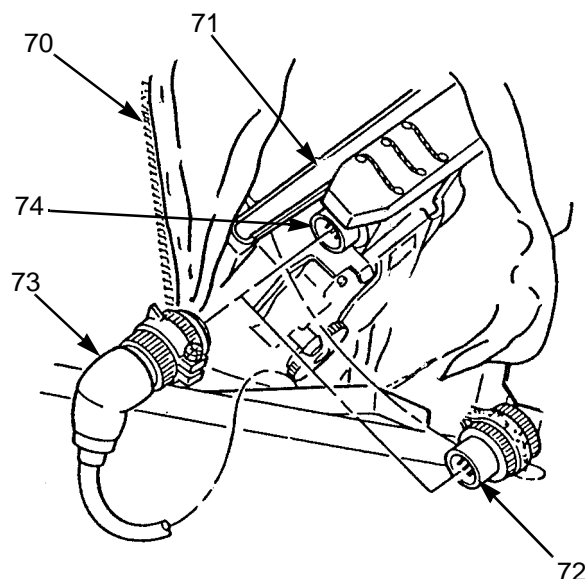
I. TBOS Gunner's Eyepiece Unit and W9 Cable Removal.

- (1) Raise gunner's browpad (66).
- (2) Lift locking lever (65) and remove gunner's TBOS eyepiece unit (68) from gunner's day-sight (67).
- (3) Disconnect W9 cable connector J1 (69) from TBOS gunner's eyepiece unit connector J1 (64).
- (4) Lower gunner's browpad (66).



m. Shorting Plug Removal.

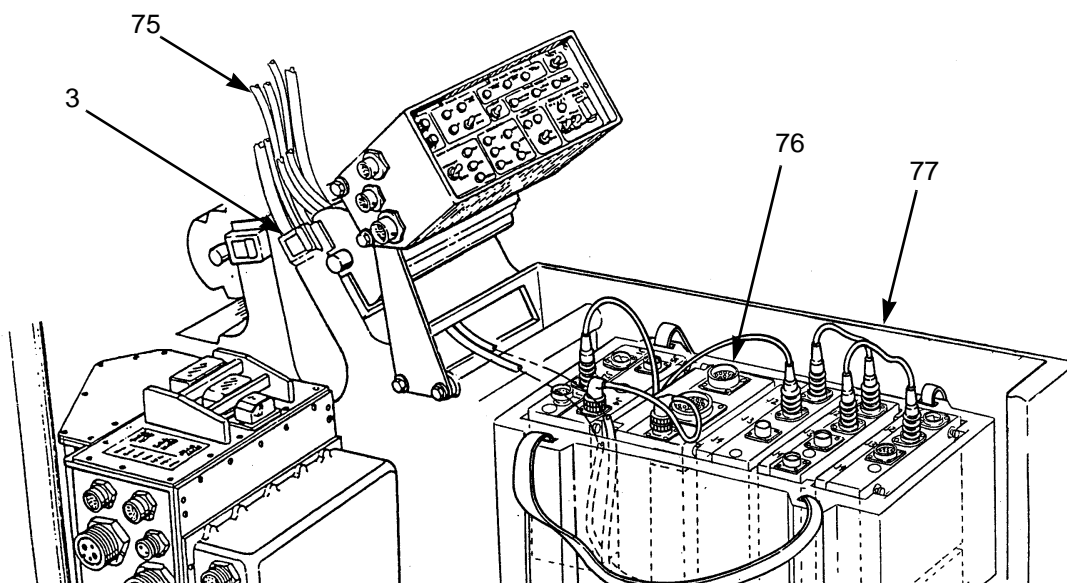
- (1) Unzip weapons enclosure bag (70).
- (2) Disconnect shorting plug (72) from 25 mm power cable connector (73).
- (3) Press feeder handle latch (71) and pull feed handle to the up and locked position.
- (4) Connect 25 mm power cable connector (73) to 25 mm gun power connector (74).
- (5) Push feeder handle latch (71) to down position.
- (6) Zip weapons enclosure bag (70).



2-21. REMOVAL OF INTERIOR COMPONENTS AND CABLES (Con't).

n. **Vehicle Interface Assembly Removal.**

- (1) Feed W9 and W10 cables (75) through ammunition feed port (3) and coil neatly on top of vehicle interface assembly (76).
- (2) Lift vehicle interface assembly (76) from HE ammunition box (77).
- (3) Install HE ammunition feed chute (see TM 08594A-10/1A).
- (4) Install HE ammunition box lid (see TM 08594A-10/1A).



2-22. REMOVAL OF EXTERIOR COMPONENTS AND CABLES.

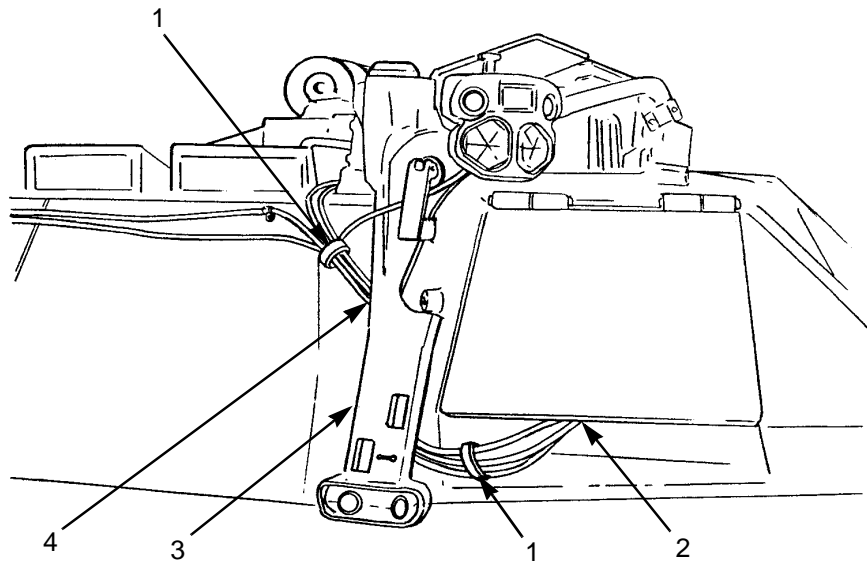
WARNING

- Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.
- TURRET DRIVE LOCK must be in locked position before connecting or disconnecting system components/cables. Failure to follow this warning may result in injury or death to personnel.

2-22. REMOVAL OF EXTERIOR COMPONENTS AND CABLES (Con't).

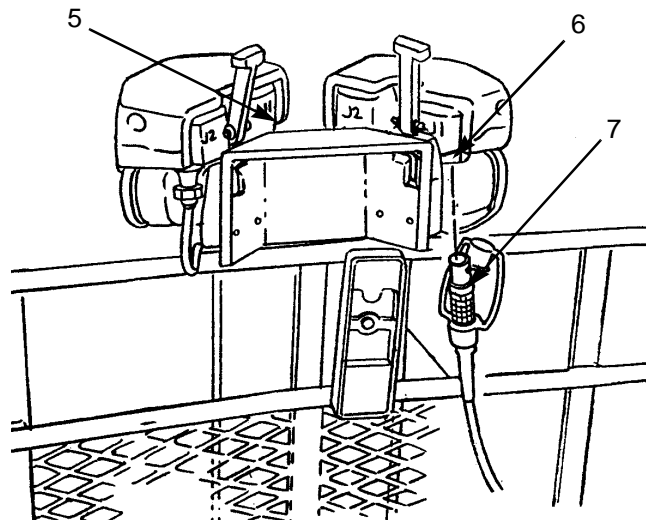
a. Unfastening of Cables.

- (1) Feed cables to exterior of turret through ammunition ejection port (2).
- (2) Unlock, but do not remove, right-front retro detector unit/hull defilade detector unit (RDU/HDDU) assembly bracket (3).
- (3) Remove cables from slot (4) on right-front RDU/HDDU assembly bracket (3).
- (4) Lock right-front RDU/HDDU assembly bracket (3).
- (5) Unfasten velcro straps (1).



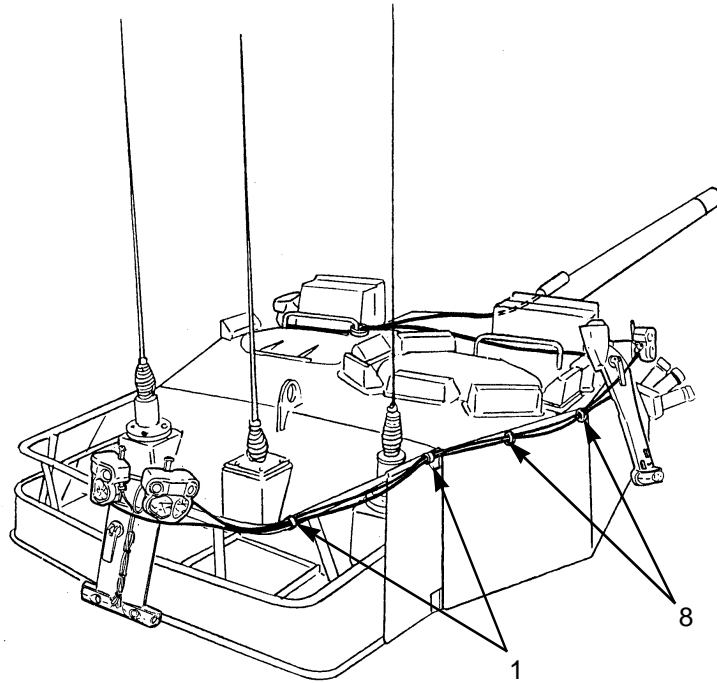
b. W8 Cable Removal.

- (1) Disconnect W8 cable connector J1 (7) from left-rear RDU connector J1 (6).
- (2) Disconnect W8 cable connector J1 (7) from right-rear RDU connector J1 (5).



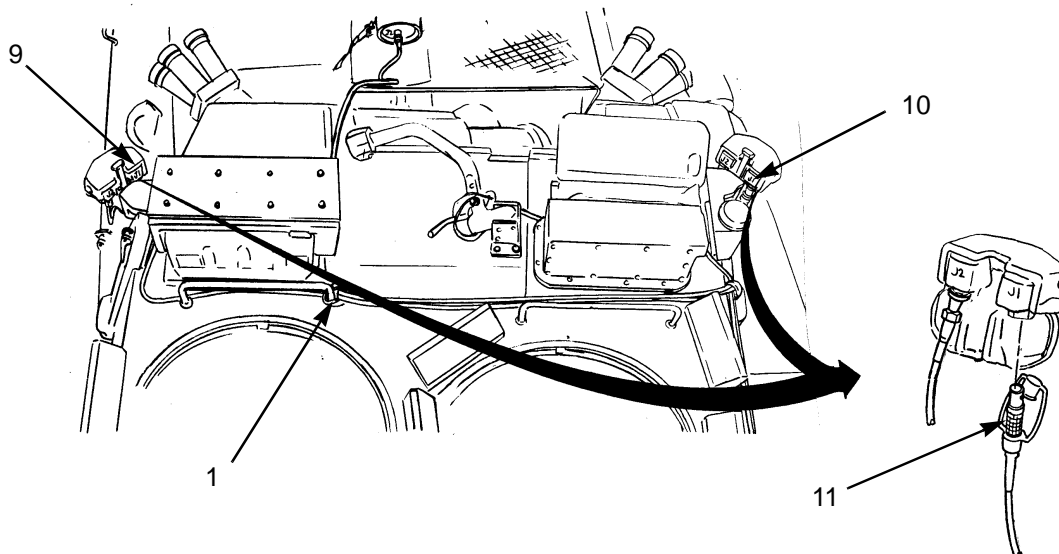
2-22. REMOVAL OF EXTERIOR COMPONENTS AND CABLES (Con't).

- (3) Unfasten velcro straps (1) and magnets (8).



c. W7 Cable Removal.

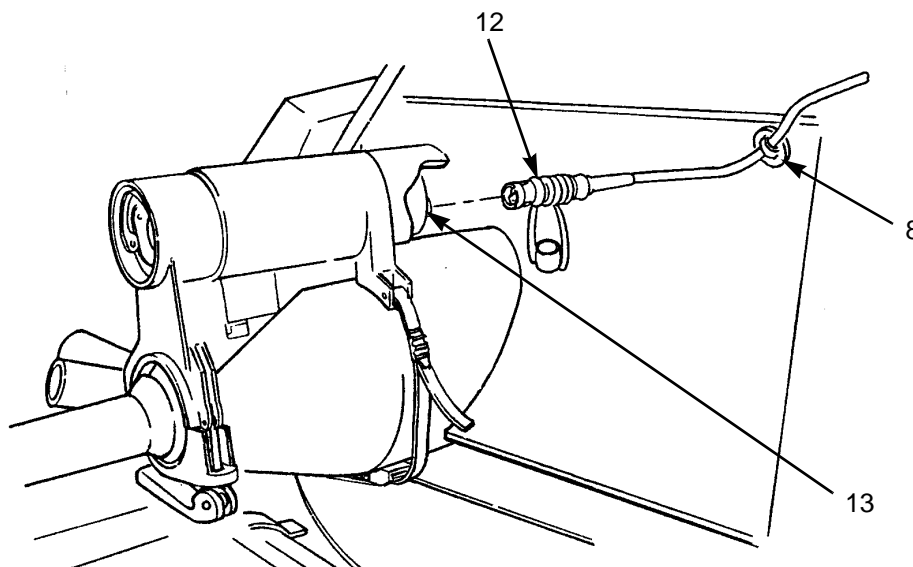
- (1) Disconnect W7 cable connector J1 (11) from left-front RDU connector J1 (9).
- (2) Disconnect W7 cable connector J1 (11) from right-front RDU connector J1 (10).
- (3) Unfasten velcro strap (1).



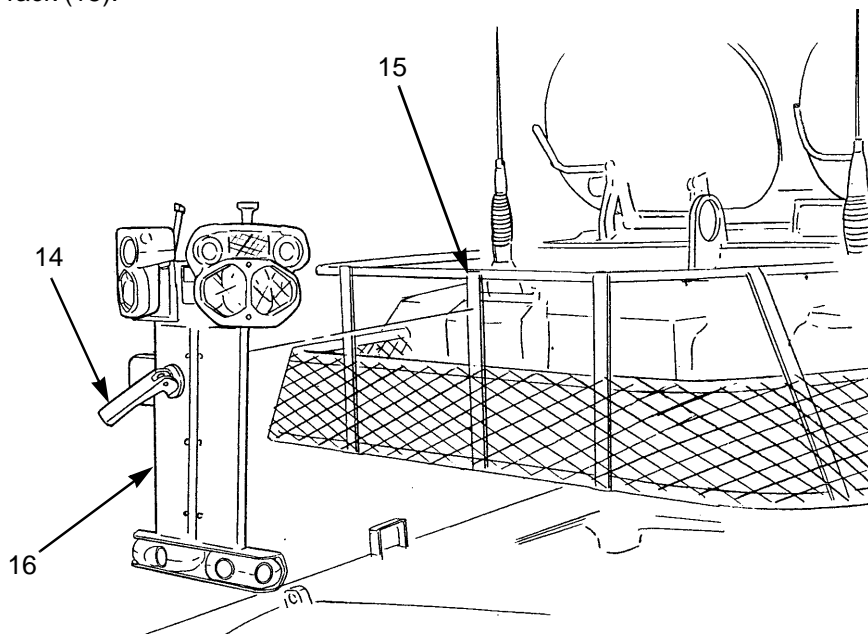
2-22. REMOVAL OF EXTERIOR COMPONENTS AND CABLES (Con't).

d. W1 Cable Removal.

- (1) Disconnect W1 cable connector J2 (12) from transceiver unit connector J2 (13).
- (2) Unfasten magnet (8).

**e. Rear Retro Detector/Hull Defilade Detector Assembly Removal.**

Pull locking handle (14) up and remove rear retro detector/hull defilade detector assembly (16) from bustle rack (15).



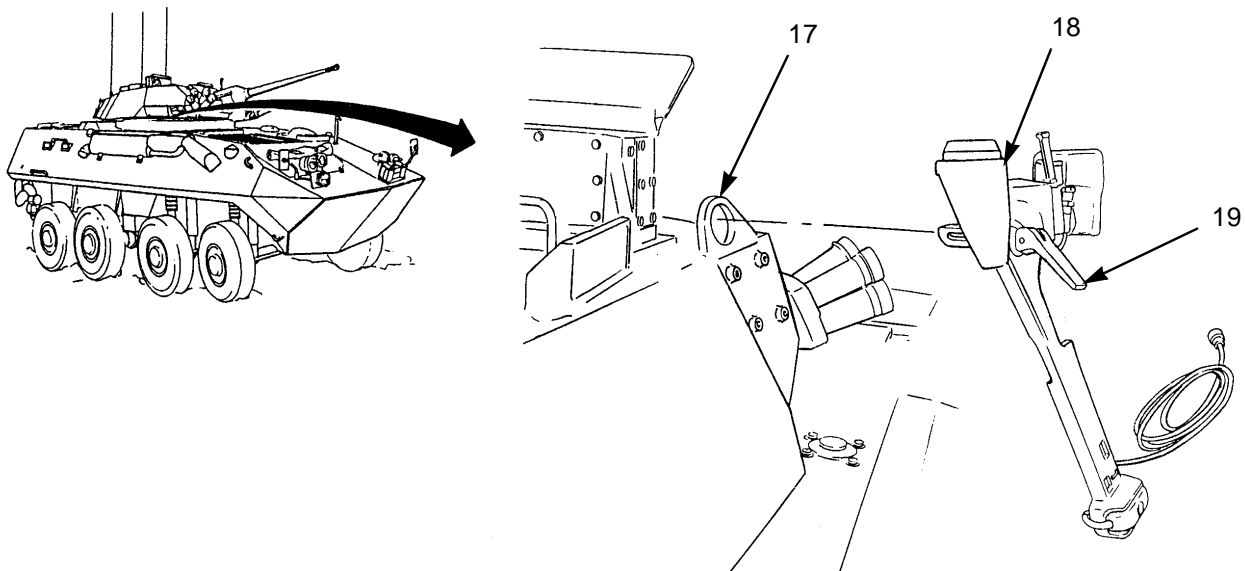
2-22. REMOVAL OF EXTERIOR COMPONENTS AND CABLES (Con't).

f. Retro Detector/Hull Defilade Detector Assembly Removal (Right- and Left-front).

NOTE

- Right- and left-front retro detector/hull defilade detector assemblies are removed the same way. Right-front retro detector/hull defilade assembly is illustrated. Perform this procedure for both assemblies.
- Right-front retro detector/hull defilade detector assembly bracket also mounts the RSI antenna.

Lift locking handle (19) and remove retro detector/hull defilade assembly (18) from turret lifting eye (17).



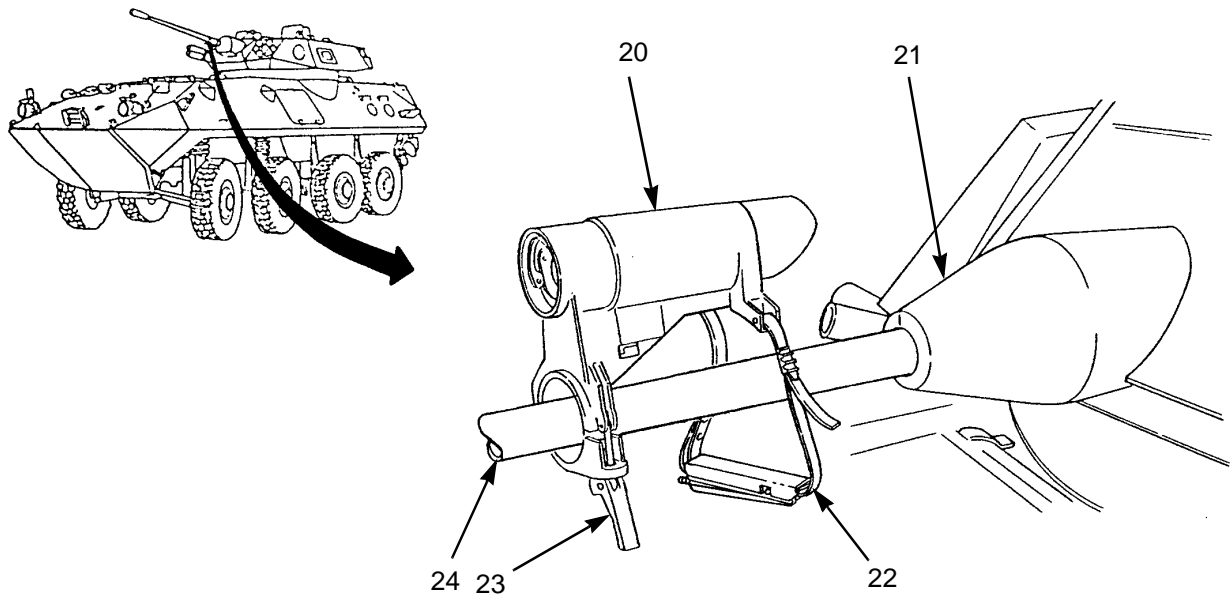
g. Transceiver Assembly Removal.

CAUTION

Ensure that transceiver unit is properly **LOCKED** into mounting bracket by checking that transceiver unit locking handle is in raised position. Failure to perform this check may result in transceiver unit falling out of mounting bracket and becoming damaged.

Release strap (22), unlock locking lever (23), and remove transceiver assembly (20) from top of rotor extension (21) and 25 mm gun barrel (24).

2-22. REMOVAL OF EXTERIOR COMPONENTS AND CABLES (Con't).



2-23. PREPARATION FOR STORAGE.

NOTE

The following steps are performed after PGS components have been removed from the vehicle.

- Perform After Operation/Crew Preventive Maintenance Checks and Services (PMCS) (see Chapter 3, Section I).
- Coil all cables neatly.
- Store PGS components in two storage cases (see paragraph 2-2).

2-24. PREPARATION FOR SHIPMENT.

- Prepare components for storage (see paragraph 2-23).
- Ensure that all latches are securely fastened.
- Do not stack storage cases more than four high during shipment.

